



Educator Resource Center

SUMMER 2010 Workshop Schedule



ERC

National Aeronautics and Space Administration

John C. Stennis Space Center

Educator Resource Center

Building 3101

Stennis Space Center, MS 39529-6000

NASA's Aerospace Academy

Professional Development for K-8 Educators

This three-day professional development workshop at Stennis Space Center is designed to provide an overview of NASA educational resources in a themed approach. Kids of all ages are fascinated with space travel and the challenges we face in exploring space in the future! Learn how to get your students “hooked on science, technology, engineering and math (STEM)” through this NASA experience.

Teachers can register for any or all of the six workshops in this Aerospace Academy series. Each session is 3.0 hours long, and CEU credit will be 0.6 for each day. If all 6 sessions are completed, the participant earns 1.8 CEUs.

Participants will bring their own lunches. Lunch will be from 11:30 - 12:30. All active and pre-service educators are welcome to attend; however, the target grade range for the activities will be kindergarten through eighth grade (K-8).

Day 1: June 8

Morning (8:30 - 11:30 am)

Rocketry: *Blastoff into Learning*

You don't have to be a rocket scientist to have a blast at this workshop! Rocketry is the theme, as participants are introduced to Newton's Laws of Motion and NASA's Rockets guide. Participants will design, build, and launch simple rockets to develop a better understanding of the basic principles of force and motion.

Afternoon (12:30 - 3:30 pm)

Living & Working in Space

How astronauts live and work in space is a fascinating topic for kids of all ages. Engage your class with fun-filled hands-on activities about astronaut training, food preparation, exercising, sleeping and working in space. Participants will learn a variety of inquiry-based activities that translate the NASA experience into meaningful science applications for their students.

Day 2: June 9

Morning (8:30 - 11:30 am)

The Sun: *Our Very Own Star*

The Sun, our closest star, is the theme of this workshop as educators develop a better understanding of the processes which govern the sun's influence on our solar system. Educators will build a sun clock that uses shadows to tell time, make a bracelet for detecting invisible ultraviolet radiation, and much more. Bring a little sunshine into your classroom with NASA educational curriculum resources!

Afternoon (12:30 - 3:30 pm)

The Moon: *Going on a Lunar Adventure*

Come take a tour of the Moon. Participants will revisit the Moon as during the Apollo days. Using NASA curriculum materials, teachers will model a variety of fun-filled activities, such as edible Moon phases and moon craters that will intrigue students into learning the science behind NASA's next adventure.

Day 3: June 10

Morning (8:30 - 11:30 am)

The Solar System: *Destination Mars*

Is there life on Mars? What is it like to operate a rover on Mars? A trip to Mars is a compelling topic that will engage your students into wanting to learn more about the science, technology and engineering challenges necessary to send the first human to the red planet. Participants will design a Mars critter and remotely operate a LEGO™ robot from a distance just like NASA scientists.

Afternoon (12:30 - 3:30 pm)

Aeronautics: *Come Fly with NASA*

The subject of flight has a wonderful power to inspire learning. Who hasn't wanted to soar like a bird? Aeronautics, the study of flight and operation of aircraft, will be the theme of this up-lifting workshop. Educators will learn how their students can explore the nature of flight with fun and simple hands-on classroom activities, such as building and flying a kite and a hot air balloon. Come fly with NASA and experience some real-life applications of mathematics, science, and technology.

Stennis Space Center Summer Workshop Schedule 2010

June 2010

MON	TUE	WED	THU	FRI
	1	2	3	4
7	8	9	10	11
	NASA's Aerospace Academy (K-8)			
	Rocketry / Living & Working in Space	The Sun / The Moon	The Solar System / Aeronautics	
14	15	16	17	18
21	22	23	24	25
28	29	30		
		A View from Above (5-12)		

July 2010

MON	TUE	WED	THU	FRI
			1	2
5	6	7	8	9
12	13	14	15	16
		NASA Resources in the Classroom (5-8)	Surrounded by Science (K-4)	
19	20	21	22	23
26	27	28	29	30

NASA Professional Development Workshop at JSU

Science Curriculum Coordinators and Science Teachers from across Mississippi are invited to a NASA Professional Development Workshop at Jackson State University, on June 24, 2010, 9:00a.m.-3:00p.m.

Participants will be trained in using hands-on, inquiry-based methods and technology that are aligned to the 2010 Mississippi Science

Framework and can be integrated across the curriculum. Educators will receive NASA Education Resources, a Forces and Motion Tool-Kit, .5 CEUs, and a stipend for participation.

Register by calling the NASA Educator Resource Center at 1-800-237-1821, option #2; or call 228-688-3338.

View the Workshop Schedule online at <http://education.ssc.nasa.gov/workshops.asp>

Workshops

A View from Above: The Hubble Space Telescope Thursday, June 30, 2010 Grades: 5-12

CEUs: 0.5

Make the stars come alive in your classroom! This workshop will explore our solar system and universe through the "eyes" of the Hubble Space Telescope (HST), celebrating its 20th anniversary of exploration and discovery. Light, color, the electromagnetic spectrum, and careers are a few of the related topics that will be explored in this STEM professional development opportunity that integrates NASA education resources and inquiry activities. Enjoy learning about our universe with this unique "view from above."

NASA Resources in the Classroom Wednesday, July 14, 2010 Grades: 5-8

CEUs: 0.5

Looking for classroom materials? Explore NASA websites for educational teaching resources the easy way. In this workshop you will learn how to search for activities, lesson plans, videos, pictures, computer games and more using the Materials Finder. You will also be challenged to search for the three hands-on activities planned for the day. Because it is fun, students will love to learn! Helps meet state and national technology standards and addresses learning across the curriculum.

Surrounded by Science Thursday, July 15, 2010 Grades: K-4

CEUs: 0.5

On any given day NASA is conducting science experiments. Often, without realizing it, we too are conducting simple science experiments in our homes, schools, and even on our jobs. This workshop will be filled with "scientific" activities that you will be able to take back to your classrooms. Participants will use NASA curriculum support materials and other ideas to help you and your students understand and enjoy being scientists.

ERC Location and Hours

The NASA Educator Resource Center (ERC) at Stennis Space Center is located in building 3101, next to the guard station on Mississippi Route 607 at the south entrance to Stennis. The ERC is open from 9-3 Monday-Friday for educators to pick up NASA materials. Most ERC workshops are also held at this location.

Educators arriving from the south can attend these workshop sessions or pick up ERC materials without going through security clearance.

To reach the center, educators from the south (I-10) should take Exit 2 and go north on Hwy. 607. Educators entering from the north (I-59) should take Exit 1 to Hwy. 607 south. Educators coming from the north will need to stop at the North Gate entrance and obtain a visitor's badge.

It's time to register for free educator workshops at Stennis Space Center



How to Register for Free Workshops At John C. Stennis Space Center

To make reservations, call the NASA Educator Resource Center at 800-237-1821 and select option 2, or call 228-688-3338. Please call between 7 a.m. and 3 p.m. Monday through Friday. Unless otherwise noted, all 0.5 CEU workshops will be held 8:30 a.m. - 2:30 p.m. National and state education standards will be addressed in science, technology, engineering, mathematics and geography in the workshops. For more information, e-mail SSC-nasaERC@mail.nasa.gov.

Notes on Stennis Space Center Educator Resource Center Workshops

Stennis Space Center ERC personnel consistently strive to ensure as many teachers as possible have access to SSC educator workshops. In order to maximize attendance at all workshops and events, please note the adjustments made to our registration procedures: Teachers may register for no more than three (3) workshops per semester and may only make registrations for themselves. If a participant is unable to attend a workshop, he or she must call the ERC at 228-688-3338 as soon as possible. Failure to notify the ERC of a registration cancellation will affect a registrant's ability to participate in future workshops and programs.

For security purposes, you may be required to check in

at either the north or south reception center upon arrival at Stennis Space Center. A valid photo ID is required. Please allow sufficient time for this process when you arrive.

CEU Information

Mississippi and Louisiana educators are able to renew their teaching certificates with CEU credits from approved workshops. Unless otherwise noted, educators will receive 0.5 CEU credits for each 5-hour workshop conducted on-site. You must be present for the full workshop to earn CEU credit. The ERC maintains all CEU records. The ERC issues a certificate of attendance when the educator completes a 5-hour workshop. This certificate, along with any other CEU documentation, should be mailed by the teacher to the State Department of Education at the time of renewal. To obtain a copy of your CEU credits, a written request must be sent to the ERC.

Safety Regulation

Please note that the use of hand-held communication devices (cell phones, two-way radios, etc.) is prohibited while driving on-site at Stennis Space Center.